AMENDMENTS TO THE CLAIMS

Docket No.: HMV-090.01

- 1. (currently amended) An siRNA molecule comprising a nucleotide sequence consisting essentially of a sequence set forth in SEQ ID NO: 1 (human-BACE1 coding-region).
- 2. (original) The siRNA of claim 1, wherein the nucleotide sequence consists of about 20 to 25 nucleotides.
- 3. (original) The siRNA of claim 1, wherein the nucleotide sequence comprises SEQ ID NO: 3, 8, 13 or 18.
- 4. (original) The siRNA of claim 1, wherein the nucleotide sequence consists essentially of SEQ ID NO: 3, 8, 13 or 18.
- 5. (original) The siRNA of claim 4, wherein the nucleotide sequence consists of SEQ ID NO: 3, 8, 13 or 18.
- 6. (original) An isolated nucleic acid encoding the sense strand, the antisense strand of both the sense and antisense strands of the siRNA molecule of claim 1.
- 7. (original) An expression vector comprising the nucleic acid of claim 6.
- 8. (original) A cell comprising the nucleic acid of claim 6.
- 9. (original) A composition comprising at least two siRNAs of claim 1.
- 10. (original) A composition comprising at least two nucleic acids of claim 6.
- 11. (original) A method for reducing the level of BACE1 protein in a cell, comprising administering into the cell an siRNA molecule of claim 1.
- 12. (original) A method for reducing the level of BACE1 protein in a cell, comprising administering into the cell a nucleic acid of claim 6.
- 13. (currently amended) The method of claim 11 or 12, comprising contacting the cell with the siRNA molecule.
- 14. (currently amended) The method of claim 11-or-12, wherein the cell comprises amyloid precursor protein (APP) and the method reduces the level of β amyloid (A β) peptide in the cell relative to a cell to which an siRNA or nucleic acid was not administered.
- 15. (original) A method for preparing a pharmaceutical composition comprising combining an siRNA of claim 1 with a pharmaceutically acceptable carrier.

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16. (original) A method for treating or preventing Alzheimer's disease in a subject, comprising administering to the subject a therapeutically effective amount of an siRNA of claim 1, to thereby treat or prevent Alzheimer's disease.

- 17. (original) The method of claim 16, wherein the administration of the siRNA reduces the level of $A\beta$ peptides.
- 18. (original) The method of claim 16, comprising administering the siRNA into senile plaques.
- 19. (original) A method for protecting a cell against stress, comprising contacting the cell with or administering into the cell an siRNA molecule of claim 1, to thereby protect the cell from stress.
- 20. (original) The method of claim 19, wherein stress is oxidative stress.

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